

10/506513



PCT

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/506,513

DATE: 09/14/2004

TIME: 09:48:05

Input Set : A:\1362 US-SEQLIST.txt

Output Set: N:\CRF4\09142004\J506513.raw

4 <110> APPLICANT: APPLERA CORPORATION  
 6 <120> TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS,  
 7 NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,  
 8 AND USES THEREOF  
 10 <130> FILE REFERENCE: CL001362-US  
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/506,513  
 C--> 13 <141> CURRENT FILING DATE: 2004-09-03  
 15 <150> PRIOR APPLICATION NUMBER: 60/361,335  
 16 <151> PRIOR FILING DATE: 2002-03-05  
 18 <160> NUMBER OF SEQ ID NOS: 4  
 20 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 22 <210> SEQ ID NO: 1  
 23 <211> LENGTH: 1551  
 24 <212> TYPE: DNA  
 25 <213> ORGANISM: Homo Sapien  
 27 <400> SEQUENCE: 1

**ENTERED**

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30 gcggctgtcg	agaagggtga	ggtggagctg	gcggggccgg	cgaccgcgga	gccccatgag	180
31 cccccgaac	cccccgagg	cggctggggc	tggctggtga	tgctggcggc	catgtggtgc	240
32 aacgggtcgg	tgttcggcat	ccagaacgct	tgcggggtgc	tcttcgtgtc	catgctggaa	300
33 accttcggct	ccaaagacga	tgacaagatg	gtctttaaga	cagcagcatg	ggtaggttct	360
34 ctctccatgg	ggatgatttt	cttttgctgc	ccaatagtca	gcgtcttcac	agacctattt	420
35 ggttgctcga	aaacagctgt	cgtgggtgct	gctgttggat	ttgttgggct	catgtccagt	480
36 tcttttgtaa	gttccatcga	gcctctgtac	cttacctatg	gaatcatatt	tgcttgccgc	540
37 tgctcctttg	cataccagcc	ttcattggtc	attttgggac	actatttcaa	gaagcgcctt	600
38 ggactggtga	atggcattgt	cactgctggc	agcagtgtct	tcacaatcct	gctgcctttg	660
39 ctcttaaggg	ttctgattga	cagcgtgggc	ctcttttaca	cattgagggt	gctctgcatc	720
40 ttcattgttt	ttctctttct	ggctggcttt	acttacggac	ctcttgctac	cagtacccaa	780
41 gataaagaga	gtggaggtag	cggatcctcc	ctcttttcca	ggaaaaagtt	cagtcctcca	840
42 aaaaaaattt	tcaattttgc	catcttcaag	gtgacagctt	atgcagtgtg	ggcagttgga	900
43 ataccacttg	cacttttttg	atactttgtg	ccttatgttc	acttgatgaa	acatgtaa	960
44 gaaagatttc	aagatgaaaa	aaataaagag	gttgttctca	tgtgcattgg	cgtcacttca	1020
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48 atttccatta	tggtcccat	agcctttgag	ttagttggtg	cccaggatgt	ctcccaagca	1260
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51 cttattggag	gtgctgtgct	ttgttttatc	ccgtggatcc	atagtaagaa	gcaaagagag	1440
52 atcagtaaaa	ccactggaaa	agaaaagatg	gagaaaatgt	tggaaaacca	gaactctctg	1500
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56 &lt;211&gt; LENGTH: 516

57 &lt;212&gt; TYPE: PRT

58 &lt;213&gt; ORGANISM: Homo Sapien

60 &lt;400&gt; SEQUENCE: 2

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64 20 25 30
65 Pro Gly Pro Ser Asp Ser Pro Glu Ala Ala Val Glu Lys Val Glu Val
66 35 40 45
67 Glu Leu Ala Gly Pro Ala Thr Ala Glu Pro His Glu Pro Pro Glu Pro
68 50 55 60
69 Pro Glu Gly Gly Trp Gly Trp Leu Val Met Leu Ala Ala Met Trp Cys
70 65 70 75 80
71 Asn Gly Ser Val Phe Gly Ile Gln Asn Ala Cys Gly Val Leu Phe Val
72 85 90 95
73 Ser Met Leu Glu Thr Phe Gly Ser Lys Asp Asp Asp Lys Met Val Phe
74 100 105 110
75 Lys Thr Ala Ala Trp Val Gly Ser Leu Ser Met Gly Met Ile Phe Phe
76 115 120 125
77 Cys Cys Pro Ile Val Ser Val Phe Thr Asp Leu Phe Gly Cys Arg Lys
78 130 135 140
79 Thr Ala Val Val Gly Ala Ala Val Gly Phe Val Gly Leu Met Ser Ser
80 145 150 155 160
81 Ser Phe Val Ser Ser Ile Glu Pro Leu Tyr Leu Thr Tyr Gly Ile Ile
82 165 170 175
83 Phe Ala Cys Gly Cys Ser Phe Ala Tyr Gln Pro Ser Leu Val Ile Leu
84 180 185 190
85 Gly His Tyr Phe Lys Lys Arg Leu Gly Leu Val Asn Gly Ile Val Thr
86 195 200 205
87 Ala Gly Ser Ser Val Phe Thr Ile Leu Leu Pro Leu Leu Leu Arg Val
88 210 215 220
89 Leu Ile Asp Ser Val Gly Leu Phe Tyr Thr Leu Arg Val Leu Cys Ile
90 225 230 235 240
91 Phe Met Phe Val Leu Phe Leu Ala Gly Phe Thr Tyr Arg Pro Leu Ala
92 245 250 255
93 Thr Ser Thr Lys Asp Lys Glu Ser Gly Gly Ser Gly Ser Ser Leu Phe
94 260 265 270
95 Ser Arg Lys Lys Phe Ser Pro Pro Lys Lys Ile Phe Asn Phe Ala Ile
96 275 280 285
97 Phe Lys Val Thr Ala Tyr Ala Val Trp Ala Val Gly Ile Pro Leu Ala
98 290 295 300
99 Leu Phe Gly Tyr Phe Val Pro Tyr Val His Leu Met Lys His Val Asn
100 305 310 315 320
101 Glu Arg Phe Gln Asp Glu Lys Asn Lys Glu Val Val Leu Met Cys Ile
102 325 330 335
103 Gly Val Thr Ser Gly Val Gly Arg Leu Leu Phe Gly Arg Ile Ala Asp
104 340 345 350
105 Tyr Val Pro Gly Val Lys Lys Val Tyr Leu Gln Val Leu Ser Phe Phe

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107 Phe Ile Gly Leu Met Ser Met Met Ile Pro Leu Cys Ser Ile Phe Gly
108          370          375          380
109 Ala Leu Ile Ala Val Cys Leu Ile Met Gly Leu Phe Asp Gly Cys Phe
110 385          390          395          400
111 Ile Ser Ile Met Ala Pro Ile Ala Phe Glu Leu Val Gly Ala Gln Asp
112          405          410          415
113 Val Ser Gln Ala Ile Gly Phe Leu Leu Gly Phe Met Ser Ile Pro Met
114          420          425          430
115 Thr Val Gly Pro Pro Ile Ala Gly Leu Leu Arg Asp Lys Leu Gly Ser
116          435          440          445
117 Tyr Asp Val Ala Phe Tyr Leu Ala Gly Val Pro Pro Leu Ile Gly Gly
118          450          455          460
119 Ala Val Leu Cys Phe Ile Pro Trp Ile His Ser Lys Lys Gln Arg Glu
120 465          470          475          480
121 Ile Ser Lys Thr Thr Gly Lys Glu Lys Met Glu Lys Met Leu Glu Asn
122          485          490          495
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124          500          505          510
125 Asp Ser Ile Ile
126          515

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128 &lt;210&gt; SEQ ID NO: 3

129 &lt;211&gt; LENGTH: 139573

130 &lt;212&gt; TYPE: DNA

131 &lt;213&gt; ORGANISM: Homo Sapien

133 &lt;400&gt; SEQUENCE: 3

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136 atatcgggga tacattatca tctagttgag gtactgtgtg ccattttttg caccctaaag      180
137 ttattttcttc cccctactcc ccctttccat cctatactct ttggaagaaa gttactacgc      240
138 ataccacacac ttaaagagta aaccattgta cttcacctcc atgagggagg gagtatgttc      300
139 ataaagtatt tacatttcct gcaggagaga tttgtctatt ctctcctcat tatttattta      360
140 atcattttact tacatcagta ctgactcgtg gataattctt acatatgtgt ttgtttgtgt      420
141 gcatgcaaat atataatcga tgtgctttct ttgcccaata atatgttgtg gacaactttc      480
142 aaagtcaata aatacagatg accttcagaa ctttttagagg ttttaaagta agtatctaata      540
143 cagtcttcta ccaatgtaca ttatacttcc aaattttcct tatttccaac aatactgggg      600
144 tatcatcttc atacatacat ttttgtgcac ttatgtgcct attcctttgt ttactatttt      660
145 accctcattt ctaaggcaga ttacacttga gctatgttcc ccattccaca accaagcacg      720
146 gcttgctttc cttagtttat gctattttct ctacctggaa tgctcttttc ctgtcttgac      780
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149 tataacacat catctgagcc tcctagtctc tcccaggact cttttttcct accagtttat      960
150 caactgataa gaggcagaaa cgagatcaat cgcactcatc tgtgtactct atcacagtgg      1020
151 tgggcacatc aagtaactag catattttga ctttgattga agtgaagaat acgaataaca      1080
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154 agtgaaaacg actctgatgt agttgaaaag taatgctttc tagctgtctg ttaaaaatgt      1260
155 ttgttggttg aagacttcgg aattgcagtc cagtgaggac tgaaaataag catctttggt      1320
156 gtgccaaata ttcataagga aattgtatac gaatgcaaga gaatggaact gaagtaataa      1380

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159	aatgtttagt	tgactgtgac	gctgtgtcgg	tgagttgagg	ctaacgatcc	agtgtggctc	1560
160	tcctgaaggc	ccaccgcgcc	cgcacctagg	agacgcgccc	cttctgetca	tgctttgagg	1620
161	cggggtgacc	cacacatctg	tgccctcttc	tgagcaggag	gaggccccgt	cgcagacgcg	1680
162	cgcgcagaca	gcgtctgcgc	cgggcacctg	gggcgcgcgc	ccgcggggcg	ccccgcctcc	1740
163	gctctccgag	gcccaatcat	ctggaggctg	tgggggcacg	tcccgcctcc	ggccacgccc	1800
164	ccagccggcg	gggcgggggg	tgcttttaag	aaccggcggc	tggcagtggg	ctcagtccgg	1860
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204	ttgtttatca	ttgtttttgc	aaattcagtt	aagtagatcc	tttgggtgtc	gtgggtgggt	4260
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248	atttttagta	gagacagggt	ttcaccatat	tggccaggct	gggtctcaaac	tcctgacctc	6900
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PATENT APPLICATION: US/10/506,513

TIME: 09:48:06

Input Set : A:\1362 US-SEQLIST.txt

Output Set: N:\CRF4\09142004\J506513.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date